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	L4	(udp adj3 glycosyl adj3 transferase or murg) same coli	23
a con	L3	udp adj3 glycosyl adj3 transferase same coli	2
	L2	udp-glycosyltransferase same coli	0
-	_ L1	udp-glycosyltransferase same coli and crystal	0

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6737237 B1

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L3: Entry 1 of 2

File: USPT

May 18, 2004

Mar 2, 2004

US-PAT-NO: 6737237

DOCUMENT-IDENTIFIER: US 6737237 B1

TITLE: Antimicrobial agents, diagnostic reagents, and vaccines based on unique

Apicomplexan parasite components

DATE-ISSUED: May 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McLeod; Rima L.	Chicago	IL		
Roberts; Craig W.	Glasgow '			GB
Roberts; Fiona	Glasgow			GB
Johnson; Jennifer J.	Stillwater	MN	-	
Kirisits; Michael	Chicago	IL		
Ferguson; David	Tackley Oxford			GB
Lyons; Russell	Glasgow			GB
Mui; Ernest	Chicago	IL		
Mack; Doug	Riverside	IL,		
Samuel; Benjamin	Chicago	IL		
Gornicki; Piotr	Chicago	IL		
Zuther; Ellen	Beuhy			DE

US-CL-CÙRRENT: 435/6; 435/19, 435/254.2, 435/320.1, 435/69.1, 435/7.2, 435/7.22, 536/23.7, 536/23.74

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachuranta	Claims	KMC	Draw, D
	2.	Docume	nt ID:	US 66	99654 B1							

File: USPT

US-PAT-NO: 6699654

L3: Entry 2 of 2

DOCUMENT-IDENTIFIER: US 6699654 B1

TITLE: Antimicrobial agents diagnostic reagents, and vaccines based on unique apicomplexan parasite components

Record List Display Page 2 of 2

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

McLeod; Rima L. W. Chicago IL 60637

Roberts; Craig W. Kirklee, Glasgow, G12 OTW Scotland GB

Roberts; Fiona Kirklee, Glasgow, G12 OTW Scotland GB

Johnson; Jennifer J. Bolingbrook IL 60440 Mets; Laurens Wilmette IL 60091

US-CL-CURRENT: 435/4; 435/6, 435/7.1

ABSTRACT:

This invention relates uses of components of plant-like metabolic pathways not including psbA or PPi phosphofructokinase and not generally operative in animals or encoded by the plastid DNA, to develop compositions that interfere with Apicomplexan growth and survival. Components of the pathways include enzymes, transit peptides and nucleotide sequences encoding the enzymes and peptides, or promoters of these nucleotide sequences to which antibodies, antisense molecules and other inhibitors are directed. Diagnostic and therapeutic reagents and vaccines are developed based on the components and their inhibitors.

9 Claims, 20 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 16

Full	Title Citation	Front	Review	Classification	Date	Reference	多学师	Juin' es	7413 A	(Missile)	Claims	KOMC	Draw, De
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☐ 1. Document ID: US 6737237 B1

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L5: Entry 1 of 5

File: USPT

May 18, 2004

Mar 2, 2004

US-PAT-NO: 6737237

DOCUMENT-IDENTIFIER: US 6737237 B1

TITLE: Antimicrobial agents, diagnostic reagents, and vaccines based on unique Apicomplexan parasite components

DATE-ISSUED: May 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McLeod; Rima L.	Chicago	IL		
Roberts; Craig W.	Glasgow			GB
Roberts; Fiona	Glasgow			GB
Johnson; Jennifer J.	Stillwater	MN		
Kirisits; Michael	Chicago	IL		
Ferguson; David	Tackley Oxford			GB
Lyons; Russell	Glasgow			GB
Mui; Ernest	Chicago	IL		
Mack; Doug	Riverside	IL		
Samuel; Benjamin	Chicago	IL		
Gornicki; Piotr	Chicago	IL		
Zuther; Ellen	Beuhy		•	DE

US-CL-CURRENT: <u>435/6</u>; <u>435/19</u>, <u>435/254.2</u>, <u>435/320.1</u>, <u>435/69.1</u>, <u>435/7.2</u>, <u>435/7.22</u>, <u>536/23.7</u>, <u>536/23.74</u>

Full Title	Citation Front	Review	Classification	Date	Reference	equences Alterdiments	Claims	KWIC	Drawt De
	Document ID:						· · · · · · · · · · · · · · · · · · ·		

File: USPT

US-PAT-NO: 6699654

L5: Entry 2 of 5

DOCUMENT-IDENTIFIER: US 6699654 B1

TITLE: Antimicrobial agents diagnostic reagents, and vaccines based on unique apicomplexan parasite components

Record List Display Page 2 of 6

DATE-ISSUED: March 2, 2004

INVENTOR - INFORMATION:

STATE ZIP CODE COUNTRY CITY

60637 McLeod; Rima L. W. Chicago IL

Roberts; Craig W. Kirklee, Glasgow, G12 OTW Scotland GB Kirklee, Glasgow, G12 OTW Scotland GB Roberts; Fiona

Johnson; Jennifer J. Bolingbrook IL60440

Mets; Laurens Wilmette IL60091

US-CL-CURRENT: 435/4; 435/6, 435/7.1

ABSTRACT:

This invention relates uses of components of plant-like metabolic pathways not including psbA or PPi phosphofructokinase and not generally operative in animals or encoded by the plastid DNA, to develop compositions that interfere with Apicomplexan growth and survival. Components of the pathways include enzymes, transit peptides and nucleotide sequences encoding the enzymes and peptides, or promoters of these nucleotide sequences to which antibodies, antisense molecules and other inhibitors are directed. Diagnostic and therapeutic reagents and vaccines are developed based on the components and their inhibitors.

9 Claims, 20 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference	e giri jili çası	Altelinens	Claims	KWIC	Draw, De
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☐ 3. Document ID: US 6583275 B1

L5: Entry 3 of 5 File: USPT Jun 24, 2003

US-PAT-NO: 6583275

DOCUMENT-IDENTIFIER: US 6583275 B1

TITLE: Nucleic acid sequences and expression system relating to Enterococcus

faecium for diagnostics and therapeutics

DATE-ISSUED: June 24, 2003

INVENTOR - INFORMATION:

NAME CITY ZIP CODE STATE COUNTRY

Doucette-Stamm; Lynn A. Framingham MA Bush; David Somerville MA

US-CL-CURRENT: <u>536/23.1</u>; <u>435/243</u>, <u>435/320.1</u>, <u>435/325</u>, <u>435/6</u>, <u>536/24.3</u>, <u>536/24.3</u>2

ABSTRACT:

The invention provides isolated polypeptide and nucleic acid sequences derived Enterococcus faecium that are useful in diagnosis and therapy of pathological

Record List Display Page 3 of 6

conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

34 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full Title Citation Front Review Classification Date Reference Equation Claims KWC Draw D.

4. Document ID: US 6356845 B1
L5: Entry 4 of 5 File: USPT Mar 12, 2002

US-PAT-NO: 6356845

DOCUMENT-IDENTIFIER: US 6356845 B1

TITLE: Crystallization and structure determination of Staphylococcus aureus UDP-N-acetylenolpyruvylglucosamine reductase (S. aureus MurB)

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Benson; Timothy E. Kalamazoo MI Harris; Melissa S. Marshall MI

US-CL-CURRENT: <u>702/19</u>; <u>435/183</u>, <u>702/27</u>

ABSTRACT:

The substrate free form of Staphylococcus aureus UDP-N-acetylenolpyruvylglucosamine reductase (S. aureus MurB) has been <u>crystallized</u>, and the three dimensional x-ray <u>crystal</u> structure has been solved to 2.3 .ANG. resolution. The x-ray <u>crystal</u> structure is useful for solving the structure of other molecules or molecular complexes, and designing inhibitors of S. aureus MurB.

7 Claims, 628 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 625

Full	Title	Citation	Front	Review	Classification	Date	Reference	Seg Correct	Altri de mentes	Claims	KWWC	Draw, De

File: DWPI

Apr 24, 2003

5. Document ID: US 20030077803 A1, WO 200190301 A2, AU 200151467 A

L5: Entry 5 of 5

DERWENT-ACC-NO: 2002-171402 DERWENT-WEEK: 200330

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TITLE: Novel composition comprising <u>crystalline</u> form of MurG protein, a membrane-associated UDP-glycosyltransferase involved in peptidoglycan biosynthesis, for determining ability of chemical compound to bind MurG protein

INVENTOR: HA, S; WALKER, S

PRIORITY-DATA: 2000US-204930P (May 17, 2000), 2001US-0829275 (April 9, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030077803 A1	April 24, 2003		000	C12N009/22
WO 200190301 A2	November 29, 2001	E	222	C12N000/00
AU 200151467 A	December 3, 2001		000	C12N000/00

INT-CL (IPC): C12 N 0/00; C12 N 9/22; G01 N 33/48; G01 N 33/50; G06 F 19/00

ABSTRACTED-PUB-NO: WO 200190301A

BASIC-ABSTRACT:

NOVELTY - A composition (I) comprising a $\underline{\text{MurG}}_{,}$ preferably Escherichia $\underline{\text{coli}}$ protein in crystalline form, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a three-dimensional (3D) structure of the <u>crystalline</u> form of a <u>MurG</u> protein, preferably E. <u>coli MurG</u> protein, where the 3D structure conforms to the atomic coordinates given in the specification;
- (2) a 3D structure (IV) of the alpha -carbon backbone of the <u>crystalline</u> form of an E. <u>coli MurG</u> protein, where the 3D structure conforms to the atomic coordinates given in the specification;
- (3) a 3D structure (V) of the alpha -carbon backbone and conserved amino acid residues of an E. coli MurG protein, where the 3D structure conforms to the atomic coordinates given in the specification;
- (4) 3D structure (VI) of a donor nucleotide binding site of a MurG protein, where the 3D structure of the binding site conforms to the atomic coordinates given in the specification;
- (5) a 3D structure (VII) of an acceptor binding site of a MurG protein substantially conforming to the atomic coordinates given in the specification;
- (6) a 3D structure (VIII) of a membrane association site of a MurG protein substantially conforming to the atomic coordinates given in the specification;
- (7) a 3D computer image (IX) of (IV), (V), (VI), (VII) or (VIII);
- (8) a computer readable medium (X) encoded with a set of 3D coordinates of a MurG protein, alpha -carbon backbone of a MurG protein, an alpha -carbon backbone and conserved amino acid residues of a MurG protein, a donor nucleotide binding site of a MurG protein, an acceptor binding site of a MurG protein, or a membrane association site of a MurG protein, where using a graphical display software program, the 3D coordinates create an electronic file that can be visualized on a computer capable of representing the electronic file as a 3D image;
- (9) identifying (M1) a potential inhibitor of a UDP-glycosyltransferase enzyme, comprising:

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(a) using a 3D structure of UDP-glycosyltransferase enzyme as defined by atomic coordinates of UDP-glycosyltransferase enzyme;

- (b) employing the 3D structure to design or select the potential inhibitor;
- (c) synthesizing the potential inhibitor; and
- (d) contacting the potential inhibitor with the UDP-glycosyltransferase enzyme in the presence of a substrate to test the ability of the potential inhibitor to inhibit the UDP-glycosyltransferase enzyme;
- (10) a model (XI) of UDP-glycosyltransferase, a donor nucleotide binding site of a UDP-glycosyltransferase (MurG) protein, an acceptor binding site of MurG protein, or membrane association site of MurG protein, where the model represents a 3D structure that conforms to the atomic coordinates given in the specification;
- (11) a model (XII) of the 3D structure of a MurG protein, produced by:
- (a) providing an amino acid sequence of a Murg protein an E. coli Murg protein;
- (b) identifying structurally conserved regions shared between the $\underline{\text{MurG}}$ protein and the E. coli MurG protein; and
- (c) determining atomic coordinates for the MurG protein by assigning the structurally conserved regions of the MurG protein to 3D structure using a 3D structure of the MurG protein which substantially conforms to the atomic coordinates given in the specification, to derive a model of the 3D structure of the MurG amino acid sequence;
- (12) determining (M2) a 3D structure of a MurG protein, comprising:
- (a) providing an amino acid sequence of a MurG protein, where the 3D structure of the MurG protein is not known;
- (b) analyzing the pattern of folding of the amino acid sequence in a 3D conformation by fold recognition; and
- (c) comparing the pattern of folding of the <u>MurG</u> protein amino acid sequence with the 3D structure of the E. <u>coli MurG</u> protein, where the 3D structure of the E. <u>coli MurG</u> protein conforms to the atomic coordinates given in the specification;
- (13) deriving (M3) a model of 3D structure of a MurG protein, comprising:
- (a) providing an amino acid sequence of a MurG protein;
- (b) identifying structurally conserved regions shared between the <u>MurG</u> protein and the E. <u>coli MurG</u> protein; and
- (c) determining atomic coordinates for the <u>MurG</u> protein structure by assigning the structurally conserved regions of the <u>MurG</u> protein to a 3D structure of the E. <u>coli MurG</u> protein based on atomic coordinates given in the specification to derive a model of the 3D structure of the MurG protein amino acid sequence; and
- (14) deriving (M4) a 3D structure of a crystallized MurG protein, comprising:
- (a) comparing the Patterson function of a <u>crystallized MurG</u> protein with the Patterson function of <u>crystalline E. coli MurG</u> protein to produce an electrondensity map of the <u>crystallized MurG</u> protein; and

Record List Display Page 6 of 6

(b) analyzing the electron-density map to produce the 3D structure of the crystallized MurG protein.

ACTIVITY - Antibiotic; antimicrobial.

No biological data is given.

MECHANISM OF ACTION - Modulator of glycosyltransferase activity (claimed).

USE - (IX) is useful to design a compound. (XI) is useful in a computer-assisted method of structure based drug design of bioactive compounds, by providing (XI) and designing a chemical compound using (XI). The method further comprises synthesizing the chemical compound, and evaluating the bioactivity of the synthesized chemical compound. The bioactivity is selected from inhibiting binding of a nucleotide donor compound or an acceptor compound to the MurG protein, or inhibiting association of the MurG protein to a membrane. Designing the chemical compound involves computational screening of one or more database of chemical compounds in which the 3D structure of the compounds are known, and interacting a compound identified by the screening step with the model by computer. The step of designing involves directed drug design, random drug design, or grid-based drug design. Designing involves selecting compounds which are predicted to bind to or mimic the 3D structure of the MurG protein. (All claimed). (IV), (V), (VI), (VII), (VIII), (XI) or (XII) is useful to derive other MurG structures and in ligand discovery and drug discovery strategies. A modulator of glycosyltransferase is useful as antibiotics or antimicrobial agents in animals, and therapeutically or diagnostically in an animal.

Full	Title Citation	Front	Review	Classification	Date	Reference	SEQUENCES:	Mindurents	Claims	KWIC	Draw. D
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